

IonMn++[®]

Ionic Concentrated Manganese



Manganese fertilizer
in solution form
according to
M.D. 50424/2025

COMPOSITION w/v:
**Water soluble Manganese
(Mn⁺⁺).....9,1%**
Sulfate anion (SO₄).....23%

IONIC MANGANESE
MnSO₄·H₂O

PROPERTIES

IonMn++ is a liquid and acid reaction formulation of concentrated manganese sulfate monohydrate in hydrated ionic form. Its innovative technology allows manganese ions to remain stable and bioactive until fully absorbed by plant tissues.

The main feature of **IonMn++** is its good penetrating ability, when sprayed on the foliage of plants (foliage). It is very effective, immediately and significantly increasing the manganese content of plants, while it does not soil or stain plants and organs that are sprayed.

IonMn++ is used to prevent and treat manganese deficiency in plants. It is common in alkaline and calcareous soils with neutral or high pH (pH > 7.0) in calcareous soils with high content of peat organic matter as well as in soils acidic and slightly due to leaching. It is manifested by vague mesoneurial chlorination initially of the new leaves at the top of the shoots. Gradually the chlorotic tissue in the leaves turns brown while dark mesoneurial spots or bands appear.

Manganese is a component of enzymes that regulate chlorophyll production and is also a building block of chloroplasts. Its lack leads to a reduced rate of photosynthesis and reduced growth and production of plants.

IonMn++ directly gives manganese to plants, which activates the production of chlorophyll, treats chlorination and intensifies photosynthesis. If symptoms of malnutrition have already occurred, the leaves that will develop after its foliar application will not be chlorotic. Mangan-ion will also correct chlorination on old leaves.

METHOD AND TIME OF APPLICATION, CROPS

IonMn++ is applied to all crops such as vegetables, strawberries, potatoes, legumes, arable crops, fruits, nuts, citrus fruits, kiwis, vines, olives, pomegranates, ornamentals, lawns, preventive or therapeutic. Creates a homogeneous (without agglomerates) and stable aqueous solution. It is applied by hydro-lubrication or by spraying foliage (foliar), with universal and uniform wetting to runoff.

DOSAGE

Foliage: 50-100ml **IonMn++** per 100 liters of water, depending on the needs of each crop.

Hydrofertilization: 1-2 LT per hectare.

Duplicate applications may be required. Avoid overdosing.

COMBINITY

Combines / mixes with most agrochemicals,
but not with phosetyl-Al and chlorpyrifos.

STORAGE CONDITIONS

Store in its package at temperatures above -4°C,
in a closed warehouse, protected from extreme temperatures, fire and humidity.

PACKAGE: 1LT

suitable for use in organic farming, according to
with the requirements of Regulations EU 848/2018 & 1165/2021

NitroFarm SA is certified with EN ISO 9001:2015 Quality Management System
and EN ISO 14001:2015 Environmental Management System



It's not a plant
protection product



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NitroFarm

— since 1976 —